



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,102	10/23/2003	Thomas G. Dom		6587

7590 12/15/2004

THOMAS DOM  
6869 E VERNON AV  
SCOTTSDALE, AZ 85257

EXAMINER

LUBY, MATTHEW D

ART UNIT	PAPER NUMBER
----------	--------------

3611

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/692,102

Applicant(s)

DOM, THOMAS G.

Examiner

Matt Luby

Art Unit

3611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 October 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to because several of the words in the drawings appear to be incomplete, as follows. In Figure 1, the words "Ball Joint (14)" and "Control Rod (15)" appear as "Ball J int (14)" and "C ntrol Rod (15)", respectively. In Figure 2, the words "Control Rod (15)", "Wheel (7)" and "Axle (1)" appear as "C ntrol Rod (15)", "Wh el (7)" and "Axl (1)", respectively. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

2. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication (i.e., "Motorcycle Chassis Design") is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).

### ***Claim Objections***

3. Claims 1-3 are objected to because of the following informalities: the word "the" should be inserted before the word "length" in claim 1, line 10; the word "a" should be inserted before the words "vehicle", "rear" and "forward" in claim 2, lines 3, 7 and 8, respectively; and the word "an" should be inserted before the word "upper" and the word "a" should be inserted before the word "lower" in claim 3, lines 4 and 5, respectively. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

Art Unit: 3611

art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The limitation that the "length of said rear rail [is] chosen to be large enough to allow acceptable steering lock during a turn" claim 1, lines 10-11 is not supported by Applicant's disclosure.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

8. Claim 1 recites the limitations "said second pivot pin" and "said first pivot pin axes" in lines 7-8. There is insufficient antecedent basis for this limitation in the claim.

9. The limitation "length of said rear rail chosen to be large enough to allow acceptable steering lock during a turn" (claim 1, lines 10-11) is vague and indefinite for the following reasons. It is unclear what length would be large enough. It is suggested that Applicant recite a range of lengths in the claim that is supported by their disclosure. It is also unclear what acceptable steering lock comprises.

***Claim Rejections - 35 USC § 102***

Art Unit: 3611

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

11. Claim 1, as best understood, is rejected under 35 U.S.C. 102(b) as being anticipated by Edele (U.S. Pat. No. 1,743,121).

Edele discloses a steering and suspension system comprising a wheel (16) rotatably attached to an axle (shown by dotted lines in Figure 4), said axle rigidly attached to axle brackets at each end of said axle (axle is attached to 17, which is in turn attached to brackets, 44), said axle brackets containing pivot pins (42, as shown in Figures 4 and 7), said pivot pins arranged with axes that are perpendicular to the centerline of said axle (as illustrated in Figure 4), side rails (41) positioned along each side of said wheel (as illustrated in Figure 1), said side rails attached pivotally at the forward end to said axle brackets through said pivot pins with axes of said pivot pins perpendicular to longitudinal centerline of said side rails (illustrated in Figures 1 and 4, for example), said side rails attached pivotally at the rear end to rear rail brackets (38a, as shown in Figures 5 and 6), said rear rail brackets containing pivot pins (39), said second pivot pin having axes parallel to said first pivot pin axes so that movement of said side rails and said axle is in a plane that is perpendicular to the plane of rotation of said wheel (this is seen from comparing Figures 1, 2, 4 and 5), said rear rail brackets rigidly attached to each end of a rear rail (38a are rigidly attached to 38 since they welded extensions of 38, as shown in Figure 5), the length of said rear rail chosen to be

Art Unit: 3611

large enough to allow acceptable steering lock during a turn (38 and 38a allows the wheel to turn an acceptable amount), said rear rail positioned behind said wheel (see Figure 1) and perpendicular to the vehicle longitudinal centerline (see Figure 1), said rear rail pivoted about a rear rail pivot pin (36) whose axis is perpendicular to the vehicle longitudinal centerline (compare Figures 1 and 5), said rear rail pivot pin attached pivotally at each end to frame brackets (attached pivotally to 46 by 45 and attached pivotally to 34 by 35), said frame brackets rigidly attached to vehicle frame (through the various mechanism shown in the Figures).

#### ***Allowable Subject Matter***

12. Claims 2-4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### ***Conclusion***

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure because it relates to steering/suspension mechanisms for bicycles or motorcycles.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt Luby whose telephone number is (703) 305-0441. The examiner can normally be reached on Monday-Friday, 9:30 a.m. to 6:00 p.m..

Art Unit: 3611

15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (703) 308-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Matt Luby  
Examiner  
Art Unit 3611



M.I.  
December 10, 2004